

Application No.: 10/646,473
Atty. Docket No.: 003797.00616

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An application programming interface for analyzing electronic ink, comprising:

an analysis context object that maintains document data for a document containing electronic ink content that is hosted by a software application running on a first processing thread, and

an ink analyzer object that

employs the first thread to make a copy of the document data,

provides the copy of the document data to an electronic ink analysis process, and

returns control of the first processing thread to the software application.

2. (Original) The application programming interface recited in claim 1, wherein the ink analyzer object reconciles the results of the analysis process with current document data for the document.

3. (Original) The application programming interface recited in claim 1, wherein the ink analyzer object makes a second copy of the document data for use in reconciling the results of the analysis process with current document data for the document.

4. (Currently Amended) An application programming interface, comprising:

an ink analyzer object that

receives document data for a document containing electronic ink content from a

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software application hosting the document and running on a first processing thread

employs the first thread to make a copy of the document data,

provides the copy of the document data to an electronic ink analysis process,

returns control of the first processing thread to the software application ~~analysis process~~; and

reconciles the results of the analysis process with current document data for the document.

5. (New) A method of analyzing electronic ink, comprising:

receiving an analysis context value identifying an analysis context object, the analysis context object including a data structure containing characteristic data for one or more elements of a document; and

in response to receiving the analysis context value, providing results of an analysis of the analysis context object.

6. (New) The method recited in claim 5, further comprising:

receiving a user interface property defining a first processing thread;

in response to receiving the analysis context value, having the identified analysis context object analyzed using a second processing thread; and

in response to receiving the user interface property, providing the results of the analysis of the analysis context object to the first processing thread.

7. (New) The method recited in claim 5, further comprising:

receiving an options property specifying one or more analysis criteria for analyzing the analysis context object; and

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in response to receiving the analysis context value, having the identified analysis context object analyzed using the specified analysis criteria.

8. (New) The method recited in claim 7, wherein the analysis criteria includes one or more of the group consisting of: enabling text recognition, enabling the use of tables, enabling the use of lists, enabling the use of annotations, and enabling the use of connectors and containers.

9. (New) The method recited in claim 5, further comprising:

in response to receiving the analysis context value, having the identified analysis context object analyzed using a background processing thread; and

allowing changes to the document during analysis of the document.

10. (New) The method recited in claim 5, further comprising providing the results of the analysis of the analysis context object by identifying a copy of the analysis document object modified to include the results of an analysis of the analysis context object.

11. (New) The method recited in claim 5, wherein providing the results of the analysis of the analysis context object includes, upon completion of analysis of the analysis context object, generating a results event indicating completion of analysis of the analysis context object.

12. (New) The method recited in claim 5, further comprising:

receiving a call to reconcile the results of the analysis of the analysis context object with a current state of the document; and

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in response to receiving the call to reconcile the results of the analysis of the analysis context object with a current state of the document, reconciling the results of the analysis of the analysis context object with the current state of the document.

13. (New) The method recited in claim 5, further comprising:

receiving a call to synchronously analyze at least a portion of the analysis context object;
in response to receiving the call, analyzing the at least a portion of the analysis context object; and

prohibiting changes to the document until the at least a portion of the analysis document object has been analyzed.

14. (New) The method recited in claim 13, further comprising:

receiving an identification of a region of the document; and
in response to receiving the identification of the region, analyzing only a portion of the analysis document object corresponding to the identified region of the document.

15. (New) A method of creating an analysis context object for use in analyzing a document, comprising:

receiving a call to create an analysis context object corresponding to a document; and
in response to receiving the call to create an analysis context object corresponding to a document, creating an analysis context object that includes a data structure containing characteristic data for one or more elements of a document.

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16. (New) The method of creating an analysis context object recited in claim 15, wherein the analysis context object includes a value defining a portion of the analysis context object to be analyzed during a document analysis process.

17. (New) The method of creating an analysis context object recited in claim 15, wherein the analysis context object includes a value defining margins for the document.

18. (New) The method of creating an analysis context object recited in claim 15, wherein the analysis context object includes an identifier identifying a root node of the data structure.

19. (New) The method of creating an analysis context object recited in claim 15, wherein the analysis context object includes hints for assisting a document analysis process.

20. (New) The method of creating an analysis context object recited in claim 15, further comprising:

receiving a call to provide an identified node of the data structure; and

in response to receiving the call to provide an identified node of the data structure, providing the identified node of the data structure.